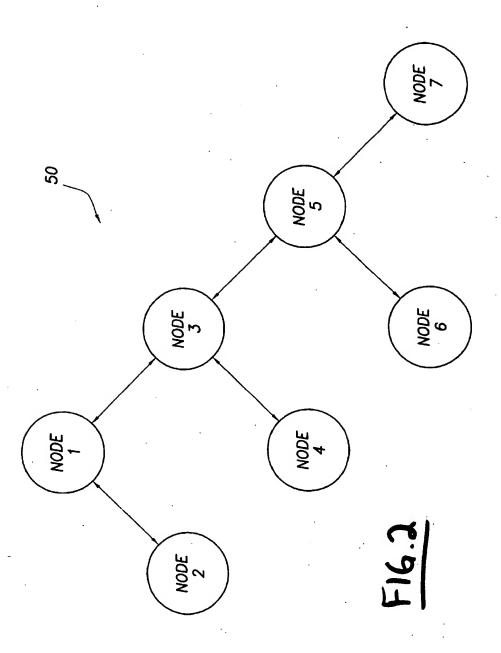Express Mail: EV 269189195 US
Inventor: Colin Whitby-Strevens
Docket No.: APPL-P3215
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Filed: December 11, 2003
Title: SYMBOL ENCODING FOR TOLERANCE TO SINGLE BYTE ERRORS
Attorney: John W. Crosby
Sierra Patent Group, Ltd.

FIG. 1 (Prior Art)

1394c 10-bit symbols

802.3ab 8 bit bytes

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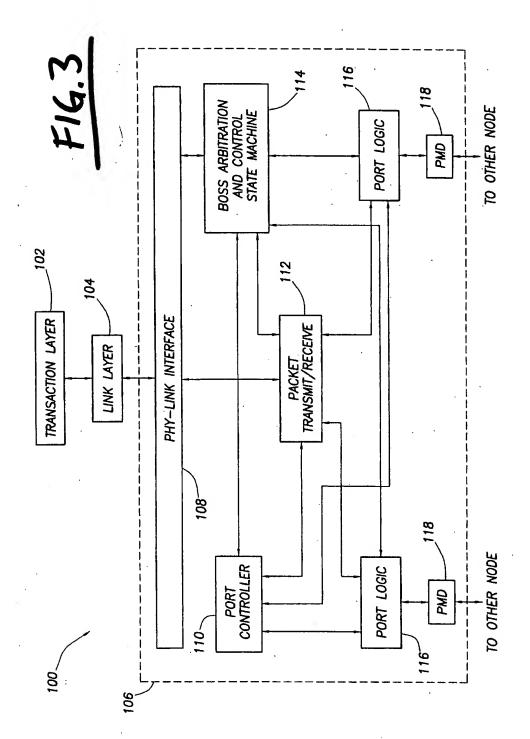Attorney: John W. Crosby
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FIG.2

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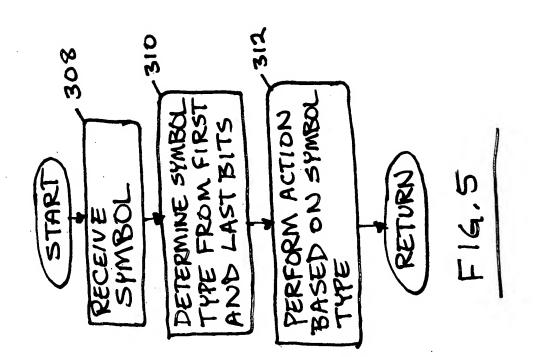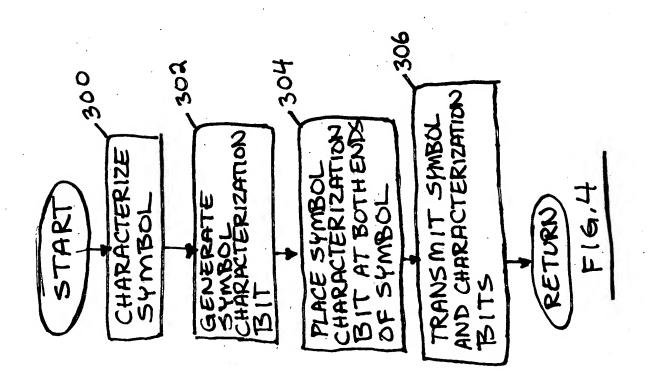Sierra Patent Group, Ltd.

FIG. 3

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START → RECEIVE SYMBOL (308) → DETERMINE SYMBOL TYPE FROM FIRST AND LAST BITS (310) → PERFORM ACTION BASED ON SYMBOL TYPE (312) → RETURN

FIG. 5

START → CHARACTERIZE SYMBOL (300) → GENERATE SYMBOL CHARACTERIZATION BIT (302) → PLACE SYMBOL CHARACTERIZATION BIT AT BOTH ENDS OF SYMBOL (304) → TRANSMIT SYMBOL AND CHARACTERIZATION BITS (306) → RETURN
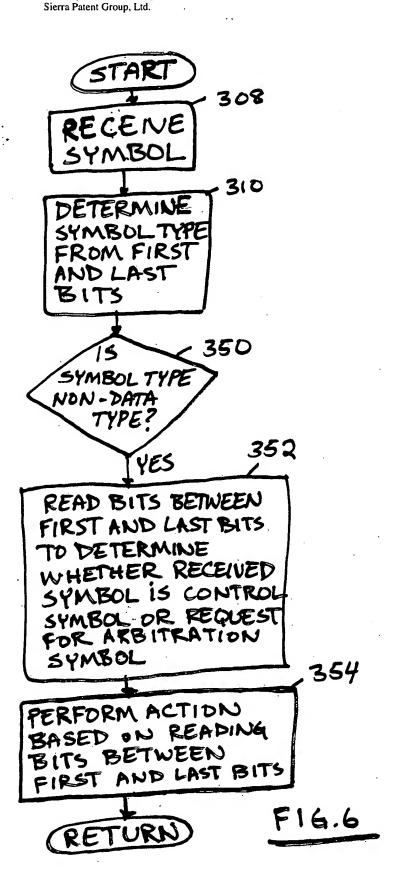
FIG. 4

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START

RECEIVE SYMBOL — 308

DETERMINE SYMBOL TYPE FROM FIRST AND LAST BITS — 310

IS SYMBOL TYPE NON-DATA TYPE? — 350

YES

READ BITS BETWEEN FIRST AND LAST BITS TO DETERMINE WHETHER RECEIVED SYMBOL IS CONTROL SYMBOL OR REQUEST FOR ARBITRATION SYMBOL — 352

PERFORM ACTION BASED ON READING BITS BETWEEN FIRST AND LAST BITS — 354
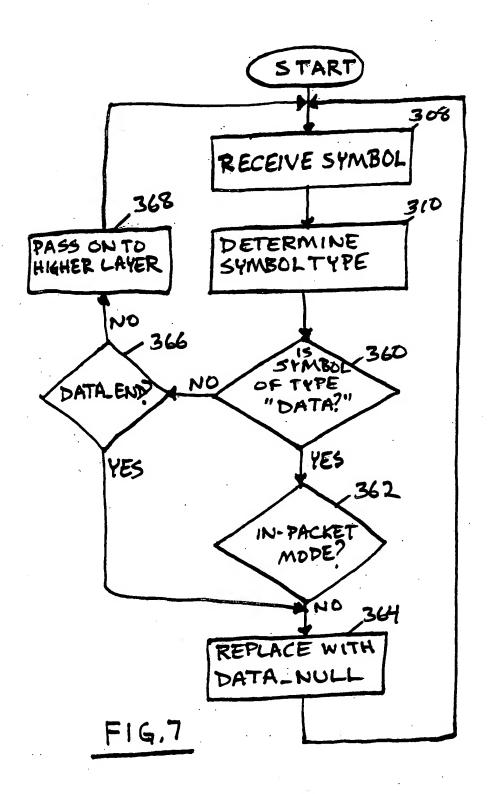
RETURN

FIG.6

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Docket No.: APPL-P3215
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Attorney: John W. Crosby
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START

RECEIVE SYMBOL 308

DETERMINE SYMBOL TYPE 310

PASS ON TO HIGHER LAYER 368

NO

DATA END? 366

YES

IS SYMBOL OF TYPE "DATA?" 360

NO

YES

IN-PACKET MODE? 362

NO 364

REPLACE WITH DATA_NULL

FIG. 7

FIG. 8